54 CAG	108 CGC	162 GTT	216 ATG M	270 GAG E	324 CAT H
TGC	999	ACC	AGC	TCT GCA	AAG K
$\Omega$	TGG	225	CAG	TCT	315 TCC GGC S G
45 GCT	225 66	153 AGG	207 GCC	261 AGC S	315 TCC S
36 ACA GCC TCA	990	TCC	CTC ACA	243 AGT GAG CAG GAA GAC TCC S E Q E D S	TCA GGC S G
၁၁၅	TGG	CCT		GAC D	TCA S
36 ACA	ეენ 06	144 CTG	198 GTC	252 GAA E	306 CCC P
වුටට	GAG	CCT	CTT	CAG Q	297 GGG GAC GGG G D G
GAG	CAG	CTG	189 TAA CAT	GAG E	GAC D
27 CCT	81 GCC	135 TAC		243 AGT S	297 GGG G
GGT	ATG AGG	999	ACG	GAG CCG E P	CCC GCA P
TGA	ATG	CAG	ACT		CCC
18 GAC	72 CAG	126 AGC	180 TTG	234 TTT F	288 AGC S
GGA	AGA	GGA	သဗ	GAG E	CCC
909	299	AGA	TGT	CCA	399 9
9 TCC	222	117 GGG	171 AGC	225 ATC I	279 CTG L
500	63 GCC AGA CCC	GGT	သည	CAG Q	399 9
9 5' CGA CCG TCC	വാ	117 TAC GGT GGG	255	TTC CAG F	AGG GGC R
- 2					

#### FIGURE 1A

378 CCA P

CAG Q

GAG E

CAC CAG

360 AGT (

351 CTG TGG GAC GCC P L W D A S

CTC

CCA P

342 GGC G

333 CAG GCC Q A

CGC R

CAT

369 CAG ( Q

432 CAC H	486 AGC S	540 CGC R	594 AAG K	648 TCC S	702 AGC S	756 CCA
CGC R	CCC			AGC S		TTC
AGT S	GAG E			CAA Q		
423 CGG R	477 GAG E	531 GCA A	585 TCC S	639 CGG R	693 GGC G	747 CAC
ATC				ATG M		
GAG				CAG Q		
414 GTG V				630 ACG T		738 CCG
GCT				GCA A		
999 9		CCC		ACA T	TGG W	CAC
	459 GAC D		567 AGT S		675 TGG W	
9 9		TCG		GCG A	TCC	TCG
GGA G	ACG T	CGC R	AGG R	AGC	CAG Q	CCT
396 CAT H	450 GGG G	504 TCG S	558 CGG R	612 AAG K	666 TTC F	720 TGA
CAT H	GCG A	CGC R		CCG P		CAG Q
AGC S	CCC	0 0 0		CGC R		TCC
387 AGC S	441 TAC Y	495 CGG R	549 CGC R	603 CCT P	657 ACG T	711 CCC P
AGC S	TCC	TTT	3 3 9	CTT	TGG W	GCC
ACC T	AGC S	CCC	TAT Y	GGA G	AGC	TCC

# FIGURE 1B

-, APPROVED	0 1	Fig.
BY C. AFTS W.	CLASS	SUECLASS
4		

810 CCT ATG	864 TTC CCT	918 GGT TTT	972 GGG CTT	1026 CAC CGG
AGG	AGA	TTG G	TCC G	CGT C2
801 CTC	855 CCC	909 GTT	963 GGC	1017 TTG
TCC	TGA	GAA	TCA	1017 TAA CCG TTG
ACT	ටුවුව	TCG	222	TAA
792 AGT	846 GAG	900 CCA	954 CCG	1008 GTT
GGA	AGG	GTC	သည	1008 CAG GTT
299	TGG	TTG	GTG	AGC
783 ATG	837 CTT	891 GGC	945 TCC	999 GCG
AAT	CTC	GAA	299	GTC
TTG	TGT	ACG	AGT	TAA
774 ATC	828 TGC	882 GCC	936 GGA	252 066
သဗ	SOO	GAA	သဘ	CTG
GCA	GAT	TGT	သဗ	ანა
765 TGG	819 GAG	873 GCG	927 ACA	981 AGG
765 CTG CCC TGG	819 CAA AAA GAG	TCC GGT	222	೨೦೨
CTG	CAA	JCC	900	981 TCC CCC AGG

1089 1098 AGC CCG CGT CTG TGC AAA AAA A 3'

1035 1044 1053 1062 1071 1080 GAC CCG AGC CCC CGC GAT GCC CTG GGG GCC GTG CTC ACT ACC AAA TGT TAA TAA

## FIGURE 1C

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GI 1683637 358673 SYPAGT : Ø Ø 田 Д 召 S S 闰 区 Д Н О 闰 G >  $\mathcal{O}$ Ö Ø CD ≥ ĸ A SHHGG  $\Omega$ വ വ Q P ' G L L W D A S H Q Q E G L L W D A S H O O E വ വ Ø Ø

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GI 1683637 358673 S D E R M M 段 民 пп 田田 22 24 R Y G R Y G  $\alpha \alpha$ A A PPNLWA PPPNLWA P S A S A GMGEEPSPFRGRSR RDGGGAQPFRGRSR SPF G E E  $\Sigma$ CD  $\alpha$ 띠 EDD ĸ G G ಹಹ

GI 1683637 358673 QSWWDRNLG OSWWDRNLG TRVF( TRVF( SSW Q S 0 S F K K G L P R P K S A G T A T Q M R F K K G L P R P K S A G T A T O M R F V D S I F V D S I

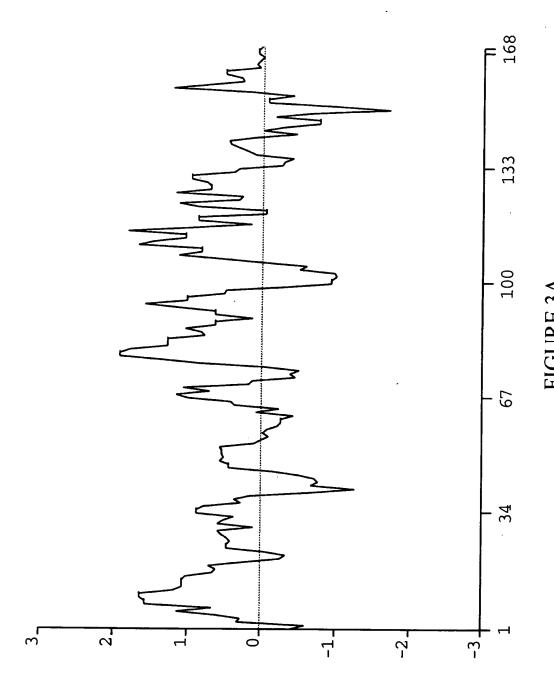
161 RGSSAPSQ 161 RGSSAPSQ

22 23

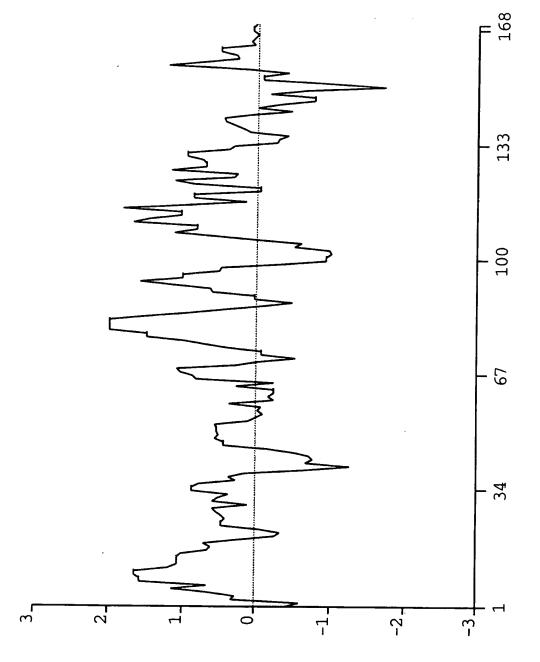
358673 GI 1683637

FIGURE 2

OSBOLEKY OKEBOL



Dosevezz Ocest



CEVORAGE :	C .	ig.	
BY	CLASS	SUBCLASS	(
CONAFTSMAM			
-			

54	AGA
	AGA
	AAG
45	GCA
	GCA
	ACC
36	CAC
	TCA
	TCC
27	ACT
	AGA
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18	$\mathcal{O}$
	ATT
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6	CAG
	ATG
	NGA
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80	335
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	TGT
	GCT
66	TGA
	AGA
	GAT
90	CCA
	GGT
	AGA
81	CAG
	AGC
	TGC
72	999
	CCT
	AAA
63	GAC
	AAA
	CIG

378	GGA	<sub>ග</sub>
	GGT	ധ
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369	CGG	24
	960	ტ
	CAT	H
360	AAT	z
	GTG	>
	CGA	æ
351	AGC	വ
	AGA	24
	GTG	>
342	AGT	യ
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	CCA	വ
333	AGC	ഗ
	GCA	Ø
	AAA	×

#### **FIGURE 4A**

APPROJED	C. =	G.
BY	CLAS	SUBCLASS
TO NOTE TO		

432 GAC D	486 GTT V	540 AAC N	594 AGC S	648 GGT G	702 ACG T	756 AAC N
TGT	TTA L	AGA R	AAA K	TTT F	TTG	GAC D
CCG P	AAA K	GCA A	CTG	TTC	GTC V	TAT Y
423 CTC L	477 AGA R	531 CTA L	585 AAG K	639 GCG A	693 AAA K	747 CTT L
ე <del>ე</del> ნ ე	GAA E	CTG L	AAA K	GAG E	ATC I	CGT R
CCA	CAA Q	ATG M	TYIY	AGT S	CAG Q	CTG
414 GCA A	468 TGT C	522 CAC H	576 AAG K	630 GAG E	684 AAC N	738 TAC Y
TAC Y	GAT D	CTG L	TCC	ATT I	CAC H	AGC S
CGC R	TTA L	TTG	TTT F	AAA K	CAG Q	TTG
405 AAA K			567 ATG M		675 CTG L	729 CTC L
			AAC N		TTA L	CCT
CCG	GAG E	CCT P	AAC N	GAG E	CTC	ACA T
396 AAC N			558 AAG K			
TCC	CTC	GGT G	TTG L	CAG Q	ACC	ATT I
9 9	TAT Y	CCT P	ACA	CAG Q	CTC	TTC
387 AGA R	441 ACA T	495 CTG L	549 CGC R	603 CTG L	657 AAA K	711 GTG V
CGG R	TAC Y	GTG V	ATC I	GAT D	AAC N	GAA E
9	GTG V	TAT Y	AAG ATC C	CTG	TTA L	GAG E

# FIGURE 4B

FIG.

810 CCC P	864 CAA AAA Q K	918 GAA	972 3 CCT GAG P E	1026 3 GAC TGC D C	1080 ATT GTT AAA I V K
CAG ATT Q	CAA Q	Ö	CCT	GAC D	1 GTT V
CAG Q	GAA E	GAA E	AAG K	CTG	ATT I
801 TTG L	855 CAA Q	909 GAA E	963 ATC I	.017 ACA T	.071 GAT D
ATG M	CCA P	AAT N	GTC V	CAA Q	1 CCA P
3 792 8 A ACG CTT ATT TCA ATG T T L I S M L	AGT S	TGT C	36 945 954 963 CC CAA GTG TCA GGG AGA CCC CCA GTC ATC AAG CC Q V S G R P P V I K P	ATA I	CCT
792 ATT I	846 GAA E	900 TTG L	954 CCC P	.008 CCC P	.062 ATC I
CTT L	TGT C	CAG Q	AGA R	1 T'I'I F	1 AAC N
ACG	AAG K	GAA E	999 9	GTG V	AAC N
783 GAA E	837 GCC A	891 TCT S	945 TCA S	999 TAT Y	.053 CCA P
3 ATA I	TAC Y	AAA K	GTG V	AAT N	1 GTG V
GAG E	AAC N	ATA I	CAA Q	CAC H	AAA K
	ω O O	882 CAG Q	936 CCC P	$\sim$ $ \sim$	1044 AAA K
ACT	$ ext{TTG}$	CGG R	AAA K	r TTT 1 F	1 TTG L
TGT	AAT TTG N L	CTG	CCG P	ACT	GAG
765 CAC H	819 CGG R	873 AAA K	927 GAC D	981 TCA S	1035 3 AAA K
TGG W	G AAC O	AAA K	TTG L	GAC D	1 AGG R
CCC	AGG R	AAT N	927 CAA TTG GAC CCG A Q L D P K	GTG V	1 AAA AGG K R

# FIGURE 4C

1089 1098 1107 1116 1125 1134 CTT GAC TTG TCA TAC AAT AAA ATC AAC CAA CTT CGA CCC AAG GAA TTT GAA GAT L D L S Y N K I N Q L R P K E F E D

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BY	O_458	SUECLASS
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1188 ATC GAT I D	1242 AAC AAC N N	251 1260 1269 1278 1287 1296 CAA AAC TTT GAC TAT GGC GTA TTA GAA GAC TTG TAT TTG AAA CTC Q N F D Y G V L E D L Y F L K L	1350 CTC TAC L Y	1404 AAA ACG K T	1458 TAT GAA Y E	1512 GAC ACA D T
TTC	TCA	TTG	TAC Y	TGC	TAC Y	CAA
1179 GAA E	1233 TTA L	1287 TTT F	L341 CAC H	1395 GAA E	1449 AGT S	.503 GAC D
ATT	GAT	TAT	ATT	CTG L	J AGA R	1 TYT F
9 9	TTA L	$ ext{TTG}$	AAC N	399 9	ATT I	TCA
1170 AAT N	1224 GAA E	L278 GAC D	L332 TAC Y	1386 AAT N	.440 TAT Y	.494 GAG E
AGC	GAA	GAA E	GAC D	1 TTT F	1 AAA K	CCT P
AGC	TTA L	TTA L	TGT C	CAT H	GGA G	TAT Y
1161 CTC L	1215 CAT H	1269 GTA V	1323 AGA R	1377 GTC V	1431 GTG V	1485 GCA A
AAC N	ACA	ာ့သည်	TGG.	AAT N	TCT	CCA P
TTA L	CTC	TAT Y	CCT	TAC Y	TGG W	TTA L
1152 AAA K	1206 GGG G	1260 GAC D	1314 AAC N	L368 CAC H	1422 GGA G	1476 AAG K
AAG K	TTA	TTT	GAT	CAC	AAA K	GAC D
CTG L	$\Gamma \Gamma \Gamma$	AAC N	AGA R	AAG K	TAC Y	AAA K
1143 GAG E	1197 GCT A	1251 CAA Q	1305 CTC L	1359 TTA L	1413 GAA E	1467 CCC P
1143 GTT CAT GAG V H E	1197 CCT GCC GCT P A A	1251 AGT CTG CAA S L Q	1305 TTG TGG CTC L W L	TGG,	1413 CCT GAA GAA P E E	TGC C
GTT V	CCT	AGT S	TTG	1359 TAC TGG TTA Y	CCT	1467 GAA TGC CCC E C P

# FIGURE 4D

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1530 1539 1548 1557 1566 TGG GAA AAA AAA CAT AGA GAT CAC ACC GCA AAG AAG CAA AGC W E K K H R D H T A K K Q S	1620 TAG TTT	1674 CTG TGT	1728 TAA GTA	1782 CTG TCC	1836 CAG CAG
CA7 O			TAA	CTG	CAG
AAG K	AAT	TAA	1719 CTT TAA TTA	TGC	CTG
1557 GCA AAG A K	1611 GAT TGT	1665 TTT GAT	1719 TAA	1773 CCT GCT	1827 GGT AAC
GCA A	GAT	TTT	CTT	CCT	GGT
ACC	TCT	ACA	TTT	CAT	ACT
1548 ' CAC H	1602 AAT TGT	1656 ; TYT	1710 GGA AGC TTT	1764 : TAT	1818 TTC CAC
GAT D	AAT	ATG	GGA	TGC	TTC
AGA R	AGA	CAT	AAA	GAA	CAA
1539 . CAT H	1593 TAA GGT AGA	1647 AGA AAA CAT ATG TTT	1701 CCA GCT AAA	1755 TCA AGA GAA TGC TAT	1809 GAT ATG
AAA K	TAA			TCA	1 GAT
AAA K	GGA G	GTT	AAT	TAA	GGT
1530 GAA E	1584 CT ATA GTA GGA	1638 ACT GGT	1692 CAG GGT	1746 TTA TAG	1800 GCA TCT
TGG W	ATA I				GCA
GAA E	ACT T	TAT	ATG	CTA	ACA
1521   GAT D	1575 ATT I	1629 TTC	1683 TTT		1791 ' GGA
1521 GAA GAT GAT E D D	1575 GTA ATA ATT V I I	1629 TGT ATT TTC	1683 TGC CTA TTT	1737 TTA TTG TGA	1791 ATT TGT GGA
GAA E	GTA V	TGT	TGC	TTA	ATT

## FIGURE 4E

1845 1854 1863 1872 1881 1890 TTG GGT CCT AAT GAT GGC ATT AGA CTT TCA TAA TGT CCT GTA TAA ATG TTT TTA

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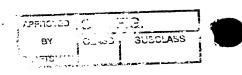
1944	GCC TTT CGA
1935	TTA CAT GCC
1926	T GGT TCA TGT TTA CAT GC
	AAT AAA GAA AAA AAA CTT
1899	CTG CTT TTA GAA

1998	
	GCT
	AAT
1989	ACA
~	TAT
	LIL
1980	1 TGA
	AAA
	TCA
1971	TGA
Н	AGA
	TAA
1962	ACT
~	CAT
	GIG
953	$ ext{T-T}$
Н	CTG TTT
	TAG

052	ATA
	CTT
	CAT
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2	GTA AGT
	TCA
2034	$\Gamma\Gamma\Gamma$
(1	$\Gamma\Gamma\Gamma$
	TAC
2025	CTC
N	CCC
	CTA
2016	TCC
2	CAT
	TGT
007	AAA
7	ATA
	ATA

2061 2070 2079 CAT TAA ATA AAT TTC CAT TTC TGA AAA AAA A 3'

## FIGURE 4F



) I I I I I I	TIVILLOFORAELRKASPGSVRSRVNHGRAGGRR 1352286	10 10 4 4 4 7 7 7 7 1 1 1 1 1 1 1 1	)
T W D 17 17 W	T 1 ^ ^ W W	MRVVTI	<b>&gt;</b>
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1352286	GI 1236329
LPGWP	LPGWP
RKLVYV	RKLVYV
YYTYLHEKYLDCQERKLVYVLPGWP 1352286	KYLDCOERKLVYVLPGWP GI 1236329
PCDVYTYLHER	TYLHE
LPCDV	LPCDV
IPVKRYAPG	KRYAPG
G S N	GSNPV
4	41

1352286	I GI 1236329
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## FIGURE 5A

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	FIGURE 5B
1352286 GI 123632	
☑ 1352286 GI 123632	FDODTEDDEWEKKHRDHTAKKOSVIITIV
<u>c</u> ] 1352286 GI 12363;	'HFNGLECKTPEEYKGWSVGKYIRSYYEEC
<u>V</u> ] 1352286 GI 123633	DYGVLEDLYFLKLLWLRDNPWRCDYNIHY

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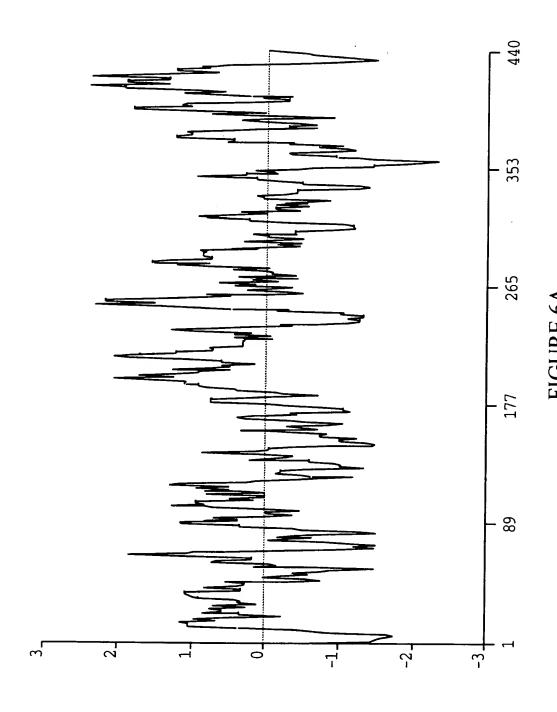
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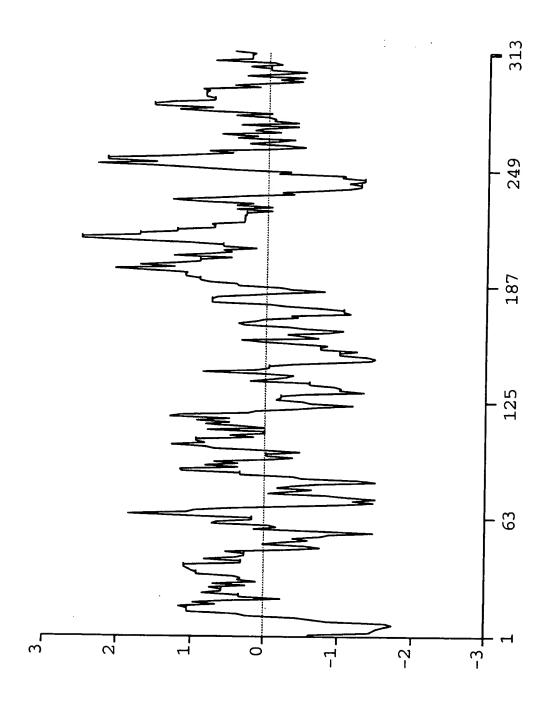


FIGURE 6B

54 CCT CCC ည္ပ 45 TTT ( CAA 36 AGA CGT ( GTC TGC CGC AAA ACT AGC TCG NAC AGC TCG AGC <u>۔</u>

108 TGA AAA TAC 99 GTC TGT AGT CTG 90 CAA CAG CGT AGC 81 CTA TCG GAG AAC  $\operatorname{TGT}$ CCI

162 GTT CCT $^{1}$ CC GTT 153 GAA AAA AGG 144 999 GIC  $G_{1}^{2}$ 135 TTA CGA 126 ATG TCA GAA CGA 117 TGA AAA

216 ACT GTG AAC 207 CTT GAT ATT 198 CTT TAC AAT  $_{\mathrm{TGT}}$ 189 TTT AAT TAC 180 TAT TTT 171 TTG TTT AAC

270 GGA GAA 261 GAT 252 GGA GTT ACT AAG CAA 243 TTT CTT GTGCAA CAC AAC GGA 225 TTG

ATG M GGG AAA 315 TAA CGA AAT 306 AAG TGC CAG AAT 297 TTTTTG AAT 288 TTA GGT CCA 279 TTTAGA

378 AAC GATCCT 369  $\mathsf{GAT}$ GCA CCT 360 AAC N GTA V AAT N CTG ATA I 342 CAG Q GAG E AAT N GAA E GTA

# **FIGURE 7A**

#### FIGURE 7B

756 GAT D

GAT

TAT Y

747 AAC N

> CCT P

GAT D

GTG

GAT D

GTG V

GAG E

GAG E

GAT

720 GTG V

711 GTG V

> CAG Q

738 AAA K

702 CCT P

> ACA T

GGT G

693 TGG W

> GTC V

GGT G

990 9

GGA G

675 GCA A

GGT G

GGT G

AAG K

CCA

657 CTA L

> GGA G

AGG R

666 AAA K

684 AAA K

810 GCA A	864 ACT T	918 3GA 3	972 3AG	)26 3AT	)80 3AT	.34 3AT
AGG R	GAT	AGT (	AGA C	10 ACT 0	10 YTG 0	11 3GA G
GAA	GGA (	AAA K	CAT /	ACA A	3CA C	STT G
801 GAT D	855 CAT H	909 ATG M	927 GTG TTG GCA GTA TCC TTA GCA TTG GAG GGG AAG GCT AGT CAT AGA GAG V L A V S L A L E G K A S H R E	017 AGC 2	071 ITA (	125 3CT (
TTG	GAG E	GAA E	GCT	ATG M	1 GAA 3 E	AGA (
CCT	TTT F	GGT G	AAG K	GTA V	CCT	GCT
792 TTG L	846 TAT Y	900 CTT L	954 GGG G	.008 ACA T	.062 CTA L	116 ATT I
GTT V	GAA E	AAT N	GAG E	1 GGG G	1 GAT D	1 TTT F
GTA V	CAG Q	TTA L	$ ext{TTG}$	TGT C	AAA K	CAG Q
783 ACT T	837 ATA I	891 GAT D	945 GCA A	999 CTT L	1053 TTG L	.107 GGC G
GAA E	ATC	AGA R	TTA L	GAC D	1 TTG L	1 GTG V
TAT Y	CCA P	TTA L	TCC	TCT	AAA K	TTG L
774 GTT V	828 ACA T	882 ATG M	936 GTA V	990 CTT L	.044 GAT D	.098 CAG Q
TGT C	TTA L	GAA E	GCA A	CTT L	1 TTT F	1 CCA P
AAC N	ACT T	GCG A	TTG L	AAG K	TCA S	GCA
		873 GTT V	927 GTG V	981 TCT S	L035 AAA K	.089 AGA R
gac cag D Q	GAG E	F GAA C	9 A CCA G P V	981 3 ACA TCT T S	GAA E	CCT P
GAC	TTT F	AAT N	GTA V	ATG	GTG V	1089 ACT CCT AGA T P R

# FIGURE 7C

1188	ح ق إ
	. TGT
	GAT :
1179	GTA V
	GGA ACT GTA G T V
	GGA G
1170	AAA C
7	${\rm TAC} \\ {\rm Y}$
	AGT TAC S Y
161	GAT D
П	ATT I
	TAT ATT Y I
1152	ACC
ᆏ	AAT N
	TGT C
1143	TTA L
⊣	ATT I
	GGA G

1242	GGT	Ŋ
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	TCT A	ß
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129	AA N
	GTC V
	TCT S
287	CAA Q
7	CAG Q
	A GGT GGG CAG CAA TCT GTC AAT G G Q Q S V N
278	GGT G
	GGA G
	AGT GTG TGG GGC TCT GGA GG S V W G S G G
1269	ეტე ტ
•	TGG W
	GTG V
1260	AGT S
• •	GAT D
	AAA K
1251	CGT R
` '	AAG K
	GGA G

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341	TTA CTC TCT (	)
~	TTA	  -
	TAT	>
1332	GAA TAT	[±]
~-1	3 AAA	×
	CTG	ı
1323	ATG CTG CTG	ᄓ
Н	ATG	Σ
	GAT	Ω
1314	GAG ATT GAT	н
7	GAG	Ŀ
	AAA	×
305	GTT	>
7	CLL	, L
	CAC	H
	_	•

1404	CAT	н
•	CAC	H
	TTT	ĹŦ
1395	CAT	H
7	G GAA CTG GAA GTA CCT CAT TTT	<u>а</u> ,
	3TA (	>
98	Ø.	
1386	S	ы
	CIG	IJ
	GAA	臼
1377	AAG	X
$\leftarrow$	CIT	I.
	TGC CTT AAG	ر ر
1368	CAT	H
٦	GAA CAT	臼
	GCT	Ą
359	GAA	田
7	TCT	ഗ
	ATA	н

458	ACA	<u>-</u>
$\leftarrow$	A AGT ACA	, c
	347	ſv.
1449		ď
1,	L'J'	E
	A A	E
	Ę	S
1440	GAG	Г
	TTA	ı
	GTT	>
1431	ATG	Σ
⊣	ATA	I M V L E S
	ATT	Н
1422	GCT	A
7	TAT GAA GCT	臼
	$\mathtt{TAT}$	>
1413	GTA	>
$\Box$	CTT	ᄓ
	GAG	ഥ

$\sim$		
1512		
	ATT	Н
	ACC	Ę
503	TCT	S
7	TCT TCT	ß
	AAG	
494	TGG	~
1,	TT	
•	TCC CTT	Н
	<u> </u>	ß
1485	A AAG	×
	TTA	ᄓ
	TTA	,J
1476	GAT	Д
Т	$\mathrm{TTG}$	
	ATT	н
7		
146	ATG	Σ
	AAG	×
	TTT	দ

# FIGURE 7D

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1566 ATT I	1620 TGT C	1674 GGC G	1728 TAC Y	1782 , TTG	1836 : TTG
GAC D	GAA E	AGG	AGC	GAA	GTT
CCG	GAA E	TCA	GAG	TCT	CTT
1530 1539 1548 1557 1566 ATG AAA AGA GGT TAT GAG AGA ATT TAC AAT GAA ATT CCG GAC ATT M K R G Y E R I Y N E I P D I	1584 1593 1602 1611 1620 GTC CCA CAT TCA TAC TCT GTG CTG GAG CGG TTT GTA GAA GAA TGT V P H S Y S V L E R F V E E C	1638 1647 1656 1665 1674 GGA ATA ATT TCC AAA CAA CTC AGA GAT CTT TGT CCT TCA AGG GGC G I I S K Q L R D L C P S R G	1692 1701 1710 1719 1728 TTT GTA AGC GAA GAT GGA GGT CGT CTT AAA CCA GAG AGC TAC F V S E G D G G R L K P E S Y	1746 1755 1764 1773 1782 GAA CTC TTG CAG TCT TAG ATG TTA TAA AAA TAT ATA TCT GAA TTG	1800 1809 1818 1827 1836 TTA GCA CAA GTT TTT TTT TTT TAA GCA CTT GTT TTG
GAA E	TTT F	TGT	AAA K	TAT	TAA
AAT N	CGG R	CTT	CTT	AAA	TTT
1548 ' TAC Y	1602 GAG E	1656 GAT D	1710 CGT R	1764 TAA	1818 TTT
ATT I	CTG	AGA R	GGT G	TTA	TTT
AGA R	GTG V	CTC L	GGA G	ATG	TTT
1539 ' GAG E	1593 TCT S	1647 CAA Q	L701 GAT D	1755 TAG	1809 TTT :
TAT	TAC	AAA K	GGA G	TCT	1 TTT
GGT G	TCA	TCC	GAA E	CAG	GTT
1530 AGA R	1584 CAT H	1638 ATT I	1692 A AGC S	1746 TTG	1800 CAA
AAA K	CCA	ATA I	GTA V	CTC	1 GCA
ATG M	GTC V	GGA G	TTT F	GAA	TTA
1521 CAA Q	1575 GAT D	1629 GCT A	1683 CGT R		
GAC	CTG L	CAG Q	1 AAG K	1737 TGA ATA TAA	1791 TAA GAG TTG
1521 GTA GAC CAA V D Q	1575 AAT CTG GAT N L D	1629 TTT CAG GCT F Q A	1683 AGA AAG CGT R K R	TGA	TAA

# FIGURE 7E

1845 1854 1863 1872 1881 1890 GGT ACA AGG CAT TTC TGA CAT TTT ATA AAC CTA CAT TTA AGG GGA ATT TTT AAA

1944	A CAG AAA
1935	GAG GG
1926	r cga ggg ggc aag
1917	r tit git tit
1908	TT TCT TTT TTT
1899	GGA AAT GTT TTT

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998	CAT
_	TGC
	AAG
6861	TGT
(7	TTT
	ACC
1980	GCT
` '	TAA
	TAA
1971	$\mathbf{T}\mathbf{T}\mathbf{C}$
,	ATA
	GGA
1962	AGT
` '	TTA 1
	TTC
1953	CTC
٠, ١	AAC
	AGT

2052	TCC TTT
	CAC
2043	TGC
•	GAC
	TCT
2034	ATG
2	TTG
	GCA
2025	TTT
(1	AGT
	CCA
2016	ATT
7	ATC ATT
	CTA
007	TAT
7	TAT
	GTT

2106	CTT TAT
2097	TCA CTG GTT TAT ACA AAG CTT TAT
2088	TCA CTG GT
2079	GTA GTA AAA
2070	GTG TTT TTT
2061	CTT TCA AGG ACA

2214	TAA AGA ATT TTT
	AGA A
2205	TAA
	TTG TCT
2196	I TCT
	GTT ATT TCT TTG
2187	AAA (
	AAA AAG AAA
2178	FAA AA
.2	TGG GAG TAA
0	
2169	GTG CTT
	ACT G

2268	TGG TCT
2259	ACT GAT
2250	T TCC AGG GAA CAT
2241	T ATT CAT CTT
2232	ATG AGA CTT
2223	AAA AAA TTA GTC

## FIGURE 7F

APPROVED	C.	FIG.
BY	CLAS	SUBCLASS
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	•
2322	TAC AAA
	TAC
	TTT TTC
2313	TTT
2	CTA
	CAT
2304	GAA
2	CTG
	TGG CTG
2295	AGG
(1	AAA
	AGT.
2286	TTA
.,	CAG
	AGA
277	ACT 1
2	AAG
	TAA

2331 2340 2349 2358 2367 2376 ACT GGA AAA ATG AAC CTG GTT CTA GAA GAA TGT ACA CCA AAA TAA AAC ATG TGA

AGC AGT ATT GAA AAA AAA 3'

FIGURE 7G

O FIG.

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GI 1384078 815087 TVVLPLD TVVLPLD E V D V K D P N Y D D D Q E N C V Y E E V D V K D P N Y D D D Q E N C V Y E T P G Q V Y D V E T P G Q V Y D V E K G V W G

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GI 1384078 815087 SGV G V വ G D T N E V A E M L R D L N L G E M K G D T N E V A E M L R D L N L G E M K Н घ घ ᅜᆈᅜᅿ ⊱ ⊱ E E E Hнн വ വ E E T T X × RAFE F TAFE F 161 161

GI 1384078 815087 T V M S T T D V E K S F T V M S T N D V E K S F G G S ပ LSDL K L L F F S Σ  $\mathbf{Z}$ **ы** ы H R H R  $\Omega$ A Ø Х × დ დ 田田 니 니 Ø Ø 口 П  $\Omega$ PVLAV: PVLAV: 201 201

IARAVGDGILCNTYID 815087 IARAVGDGILCNTYID GI 1384078 ALDTPRAPQLVGQF ALDTPRAPOLVGQF E L DKLLKDLP DKLLKDLP

## FIGURE 8A

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## FIGURE 8B

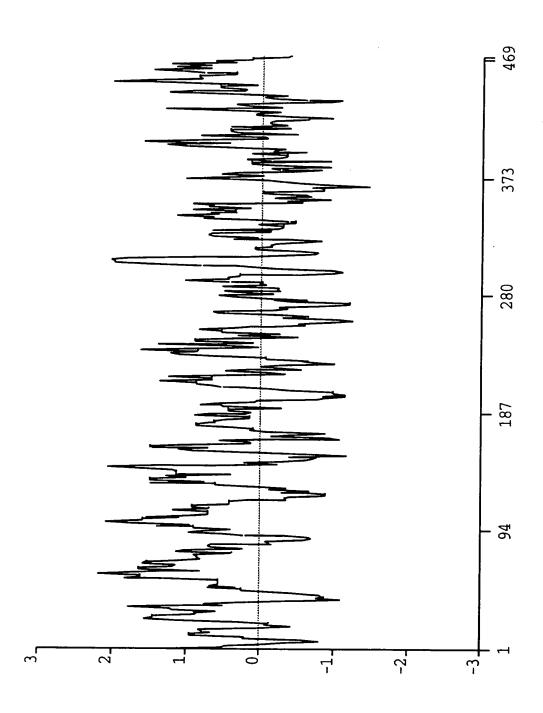


FIGURE 9A

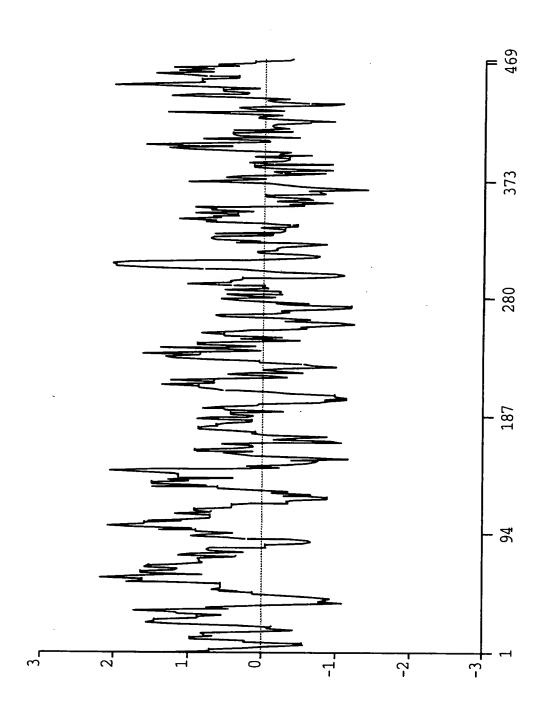


FIGURE 9B